	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	0	(telecommunication adj network) same (telecommunication adj feature) same availabil$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:44			0
2	BRS	L2	0	(telecommunication adj network) same (telecommunication adj feature) same (unavailab$5 or availab$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:22			0
3	BRS	L4	4885	705/1,500,26,27,7,8,9,10,11,22.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:24			0
4	BRS	L5	0	3 and 4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:24			0
5	BRS	L6	15071	705/$7.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:24			0
6	BRS	L8	0	3 and 6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:25			0
7	BRS	L3	22	(telecommunication adj feature) same (unavailab$5 or availab$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:43			0
8	BRS	L9	609	(telecommunication) same (unavailab$5 or availab$5) same (customer near3request$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:44			0
9	BRS	L10	70	6 and 9	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:44			0
10	BRS	L11	30	10 and 4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:44			0
11	BRS	L12	4112	telecommunication adj service	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 18:46			0
12	BRS	L13	11	11 and 12	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:41			0
13	BRS	L14	19	11 not 13	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:46			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
14	BRS	L15	2	5751802.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:46			0
15	BRS	L16	21	5751802.URPN.	USPAT	2002/09/16 19:46			0
16	BRS	L17	20	16 not 11	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:47			0
17	BRS	L18	9	17 and 12	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:47			0
18	BRS	L19	5	18 and 9	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/16 19:47			0

US006411935B1

(12) **United States Patent**
Gilles et al.

(10) **Patent No.: US 6,411,935 B1**
(45) **Date of Patent: *Jun. 25, 2002**

(54) **TRANSACTION SETS FOR AUTOMATED ELECTRONIC ORDERING OF TELECOMMUNICATIONS PRODUCTS AND SERVICES**

(75) Inventors: **Timothy Mark Gilles**, Schaumburg, IL (US); **Therese A Wierzbicki**, Franklin, WI (US); **Donna Jean Marie Motto**, Bartlett, IL (US)

(73) Assignee: **Ameritech Corporation**, Austin, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/563,319**

(22) Filed: **May 3, 2000**

Related U.S. Application Data

(63) Continuation of application No. 09/055,846, filed on Apr. 6, 1998, now Pat. No. 6,104,999.

(51) **Int. Cl.**[7] **G06F 17/00**
(52) **U.S. Cl.** **705/1**; 705/26
(58) **Field of Search** 705/1, 26; 370/392, 370/393, 394; 379/27; 395/500.48, 500.54

(56) **References Cited**

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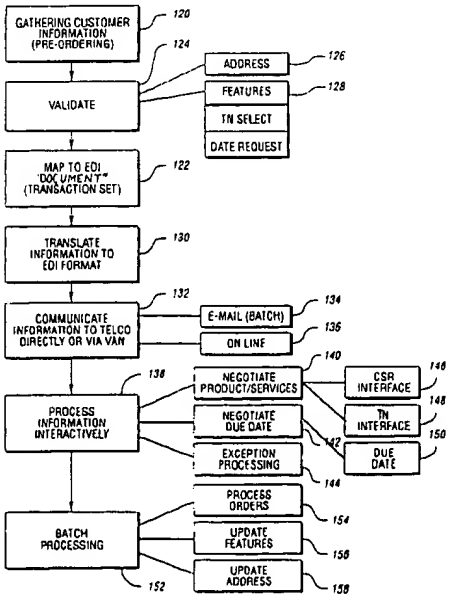
5,086,461	A	2/1992	Thorn et al.
5,222,125	A	6/1993	Creswell et al.
5,283,887	A	2/1994	Zachery
5,416,833	A	5/1995	Harper et al.
5,491,742	A	2/1996	Harper et al.
5,528,667	A	6/1996	Butler et al.
5,557,780	A	9/1996	Edwards et al.
5,644,619	A	7/1997	Farris et al.
5,794,206	A	8/1998	Wilkinson
5,794,234	A	8/1998	Church et al.
5,870,394	A	2/1999	Optea

Primary Examiner—Creighton Smith
(74) *Attorney, Agent, or Firm*—Brinks Hofer Gilson & Lione

(57) **ABSTRACT**

A system and method for electronically exchanging information related to telecommunication services includes separating data representing the information to be exchanged into predefined segments corresponding to telecommunication services, associating a segment identification code with each segment, and grouping each segment identification code with corresponding data. The system and method also include concatenating the segment identification codes and associated data according to a predefined sequence to form an electronic transaction and transmitting the electronic message to a telecommunications wholesaler or reseller. Preferably, the information is exchanged over a TCP/IP connection in an interactive, transaction-based exchange.

12 Claims, 7 Drawing Sheets



US-PAT-NO: 6411935

DOCUMENT-IDENTIFIER: US 6411935 B1

TITLE: Transaction sets for automated electronic ordering of telecommunications products and services

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A system and method for electronically exchanging information related to telecommunication services includes separating data representing the information to be exchanged into predefined segments corresponding to telecommunication services, associating a segment identification code with each segment, and grouping each segment identification code with corresponding data. The system and method also include concatenating the segment identification codes and associated data according to a predefined sequence to form an electronic transaction and transmitting the electronic message to a telecommunications wholesaler or reseller. Preferably, the information is exchanged over a TCP/IP connection in an interactive, transaction-based exchange.

The present invention relates to electronic ordering of telecommunications services and products.

Automated electronic processing of orders for telecommunications products and services according to the present invention minimizes or eliminates human intervention to reduce or eliminate costs associated with handling paper documents. The present invention provides a real-time, interactive interface for telecommunications resellers to increase accuracy and reduce turn-around time. The development of transaction sets particularly suited for telecommunications services and products provides a standard method for electronic ordering where external access to dynamic data is required. Automated translation to and from unique or proprietary interfaces used by individual resellers to standard transaction sets further reduces manual intervention while providing increased flexibility for telecommunication product/services resellers.

FIG. 1 is a diagram illustrating a Public Switched Telephone Network (PSTN) for application of automated electronic telecommunications product/service ordering according to the present invention. The PSTN, indicated generally by reference numeral 20, includes a number of Local Exchange Carriers (LEC), such as LEC 22, which function as wholesalers for telecommunication products and services. Each LEC 22 owns and/or manages one or more Central Offices (CO), indicated generally by reference numeral 24, such as Central Offices 26-36. As is known, each CO 24 typically serves a particular geographic area and includes various hardware and software to deliver telecommunication services. Such hardware includes one or more switches 38, 40 to provide a communication path for a telephone call. The various COs 24 are typically connected using one or more circuits 42 which are classified based on bandwidth capability, signal protocol, or the like, as also well known in the art.

The purchase order transaction set (850) may be used to provide for customary and established business and industry practice relative to the placement of purchase orders for telecommunications goods and services. For example, the reseller would use this transaction set to request telecommunications services from the wholesaler. Preferably, the purchase order is used to request any of the following types of services, each based on unique transaction identifiers contained within the transaction set: telephone number inquiries, reservations, reservation cancellations, and reservation confirmations; due date inquiries, reservations, reservation cancellations, and reservation confirmations; customer service record requests; and service requests.

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Block 120 of FIG. 2 represents gathering customer information during a pre-ordering process. This is typically performed by the reseller in response to a customer inquiry or request for a service. However, this step may also be initiated by the reseller or wholesaler under particular circumstances, such as in the event of termination of service for non-payment, area code changes, feature availability changes, and the like. For a representative transaction, the reseller gathers appropriate information depending upon the particular telecommunications service or product. The resellers use internal computing systems, such as computers 72, and/or databases to collect the appropriate items which constitute a particular transaction set for an electronic exchange of information. However, the information necessary for a particular transaction set may be scattered about various fields and/or databases depending upon the particular reseller's implementation. As such, the information or data is collected or mapped to a particular transaction set to form an electronic "document" as indicated by reference numeral 122.

FIG. 3 is a transaction flow diagram illustrating a pre-ordering exchange between a telecommunications provider and a telecommunications reseller as implemented in one embodiment of the present invention. Once a relationship has been established between reseller 50 and wholesaler 22, reseller 50 receives regular transmissions of a feature availability file 200 and address validation file 202 for subsequent use in processing customer orders. When reseller 50 receives an order or inquiry from a customer, reseller 50 initiates an electronic request for customer service record information and transmits the request to wholesaler 22 using either the purchaser order transaction set (850) as indicated by reference numeral 204. If the customer service record request has appropriate authorization, the corresponding customer service record is forwarded to the reseller using the customer service record response transaction set (864) as indicated by reference numeral 206.

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Using the feature availability interface in an interactive mode, the telecommunications reseller can ensure that the desired features are available for the serving CO retrieved through the address validation process. Where the CO serving the customer includes more than one switch, the feature availability interface determines the switch which contains the desired features, or selects the switch which contains the most features based on quantity or importance. The reseller can use the various feature files to determine all of the areas in which a particular feature is offered, determine which features are offered for a particular prefix (exchange), and determine valid prefixes for a particular CO.

1. A method for electronically exchanging information related to telecommunications services, the method comprising:

(a) obtaining the telecommunications service information to be exchanged, the data being in a plurality of predefined segments;

(b) associating a segment identification code with each of the plurality of predefined segments, at least one of the segments corresponding to one of the telecommunications services;

(c) concatenating the segment identification codes and associated telecommunications services information according to a predefined sequence; and

(d) transmitting the concatenated segment identification codes and associated telecommunications services information from a telecommunications reseller to a telecommunications wholeseller.

(e) parsing the telecommunications service information as a function of the predefined segments;

(f) identifying a corresponding telecommunications service; and

(g) automatically generating an acknowledgement containing segment identification codes for the corresponding telecommunications service.

(g) transmitting the formatted customer service information to the telecommunications services reseller.

(e) identifying a request related to telephone number selection from the telecommunications services information;

(e) identifying a request related to a due date selection from the telecommunications services information;

(e) providing a telecommunications service to an end-user responsive to the

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(45) **Date of Patent: *Jun. 25, 2002**

(54) **TRANSACTION SETS FOR AUTOMATED ELECTRONIC ORDERING OF TELECOMMUNICATIONS PRODUCTS AND SERVICES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**[7] **G06F 17/00**
(52) **U.S. Cl.** **705/1**; 705/26
(58) **Field of Search** 705/1, 26; 370/392, 370/393, 394; 379/27; 395/500.48, 500.54

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5,283,887	A	2/1994	Zachery
5,416,833	A	5/1995	Harper et al.
5,491,742	A	2/1996	Harper et al.
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Primary Examiner—Creighton Smith
(74) *Attorney, Agent, or Firm*—Brinks Hofer Gilson & Lione

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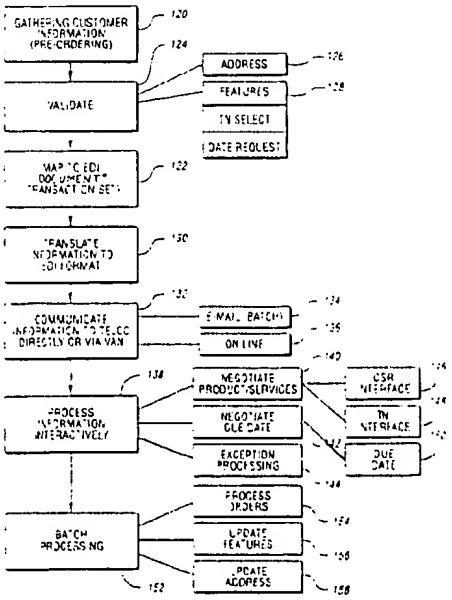
12 Claims, 7 Drawing Sheets



US-PAT-NO: 6411935

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(f) identifying a corresponding telecommunications service; and

(g) automatically generating an acknowledgement containing segment identification codes for the corresponding telecommunications service.

(g) transmitting the formatted customer service information to the telecommunications services reseller.

(e) identifying a request related to telephone number selection from the telecommunications services information;

(e) identifying a request related to a due date selection from the telecommunications services information;

(e) providing a telecommunications service to an end-user responsive to the

L4 ANSWER 1 OF 8 USPATFULL
AN 1999:28842 USPATFULL
TI Sales and inventory method and apparatus
IN Joseph, Joseph, 470 Kent Ave., Brooklyn, NY, United States 11211
PI US 5878401 19990302 <--
AI US 1996-599184 19960209 (8)
DT Utility
FS Granted
LN.CNT 503
INCL INCLM: 705/022.000
      INCLS: 705/027.000
NCL NCLM: 705/022.000
      NCLS: 705/027.000
IC [6]
      ICM: G06F017-60
      ICS: G07G001-14
EXF 705/22; 705/21; 705/16; 705/26; 705/27

L4 ANSWER 2 OF 8 USPATFULL
AN 1998:139512 USPATFULL
TI System for generation of object profiles for a system for customized electronic identification of desirable objects
IN Herz, Frederick S. M., Box 625 Canaan Valley, Davis, WV, United States 26260
      Eisner, Jason M., 1015 Spruce St., Philadelphia, PA, United States 19107
      Ungar, Lyle H., 321 S. 20th St., Philadelphia, PA, United States 19103
PI US 5835087 19981110 <--
AI US 1995-551201 19951031 (8)
RLI Continuation-in-part of Ser. No. US 1994-346425, filed on 29 Nov 1994, now patented, Pat. No. US 5758257
DT Utility
FS Granted
LN.CNT 5129
INCL INCLM: 345/327.000
      INCLS: 348/001.000; 348/007.000; 348/010.000; 348/012.000; 348/013.000; 455/002.000; 455/004.200; 455/005.100
NCL NCLM: 345/810.000
      NCLS: 725/014.000; 725/035.000; 725/046.000
IC [6]
      ICM: H04N007-14
EXF 348/1; 348/2; 348/6; 348/7; 348/10; 348/12; 348/13; 348/906; 455/2; 455/3.1; 455/4.1; 455/4.2; 455/5.1; 455/6.1; 455/6.2; 455/6.3; H04N007-10; 714; 7173; <345 326-;327; <395 200-.47;200.48;200.49

L4 ANSWER 3 OF 8 USPATFULL
AN 1998:113200 USPATFULL
TI Method and apparatus for purchasing and delivering digital goods over a network
IN Sirbu, Marvin A., Pittsburgh, PA, United States
      Tygar, J. D., Pittsburgh, PA, United States
      Cox, Benjamin T. H., Pittsburgh, PA, United States
      Wagner, Thomas, Pittsburgh, PA, United States
PA Carnegie Mellon University, Pittsburgh, PA, United States (U.S. corporation)
PI US 5809144 19980915 <--
AI US 1995-519074 19950824 (8)
DT Utility

FS Granted
LN.CNT 1592
INCL INCLM: 380/025.000
INCLS: 380/009.000; 380/021.000; 380/023.000; 380/024.000; 380/029.000; 380/030.000; 380/049.000; 380/059.000; 705/026.000; 705/027.000
NCL NCLM: 705/053.000
NCLS: 380/029.000; 380/030.000; 380/059.000; 380/282.000; 705/026.000; 705/027.000; 705/075.000; 705/078.000; 705/080.000
IC [6]
ICM: H04L009-00
EXF 380/4; 380/9; 380/23; 380/24; 380/25; 380/21; 380/29; 380/30; 380/44; 380/46; 380/49; 380/50; 380/59; 395/226; 395/227; 395/230; 395/235; 395/239; 395/240; 395/242; 395/244; 705/26; 705/27; 705/39; 705/40; 705/41; 705/42; 705/43; 705/44; 705/45

L4 ANSWER 4 OF 8 USPATFULL
AN 1998:59666 USPATFULL
TI System and method for scheduling broadcast of and access to video programs and other data using customer profiles
IN Herz, Frederick, Condominium C-304, Herzwood Canaan Valley, Davis, WV, United States 26260
Ungar, Lyle, 321 S. 20th St., Philadelphia, PA, United States 19103
Zhang, Jian, 836 Cooper Landing Rd., Apt. 412E, Cherry Hill, NJ, United States 08002
Wachob, David, 8379 Glen Rd., Elkins Park, PA, United States 19117
Salganicoff, Marcos, 2425 Olive St., Philadelphia, PA, United States 19130
PI US 5758257 19980526 <--
AI US 1994-346425 19941129 (8)
DT Utility
FS Granted
LN.CNT 3955
INCL INCLM: 455/002.000
INCLS: 348/001.000; 348/007.000; 348/010.000; 348/012.000; 348/013.000; 348/906.000; 380/007.000; 380/010.000; 380/021.000; 455/004.200; 455/005.100
NCL NCLM: 725/116.000
NCLS: 348/906.000; 380/231.000; 380/233.000; 705/051.000; 725/119.000; 725/131.000; 725/143.000
IC [6]
ICM: H04N007-10
ICS: H04N007-14; H04N007-173
EXF 348/1; 348/6; 348/7; 348/10; 348/12; 348/13; 348/906; 348/2; 455/2; 455/4.1; 455/4.2; 455/5.1; H04N007-16; 714; 7173; 710; <380 68;-10;1120;21

L4 ANSWER 5 OF 8 USPATFULL
AN 1998:52862 USPATFULL
TI Telecommunications service provisioning
IN Carr, Richard Gregory, 38 W. 810 Deer Run Dr., St Charles, IL, United States 60175
Pope, III, Francis Joseph, 2509 Braddock Dr., Naperville, IL, United States 60565
PI US 5751802 19980512 <--
AI US 1997-794129 19970203 (8)
RLI Continuation of Ser. No. US 1996-627326, filed on 4 Apr 1996, now abandoned which is a continuation of Ser. No. US 1994-364650, filed on 27 Dec 1994, now abandoned
DT Utility
FS Granted
LN.CNT 662
INCL INCLM: 379/201.000
INCLS: 379/067.000; 379/093.000
NCL NCLM: 379/201.120
NCLS: 379/067.100; 379/088.160; 379/093.010

IC [6]
ICM: H04M003-42
EXF 379/201; 379/211; 379/212; 379/230; 379/221; 379/102; 379/114; 379/167; 379/207; 379/67; 379/93

L4 ANSWER 6 OF 8 USPATFULL
AN 1998:10197 USPATFULL
TI System and method for estimating business demand based on business influences
IN Lee, Michael D., 3213 Chandra La., Albuquerque, NM, United States 87124
Fields, Randall K., 333 Main St., P.O. Box 5000, Park City, UT, United States 84060
Pond, Jamie T., 2016 E. Windham Cir., Salt Lake City, UT, United States 84109
Tondevold, Barrire K., 5117 Germania Pl., Murray, UT, United States 84123
PI US 5712985 19980127 <--
AI US 1995-542847 19951013 (8)
RLI Continuation-in-part of Ser. No. US 1993-23111, filed on 26 Feb 1993, now patented, Pat. No. US 4459656 which is a continuation-in-part of Ser. No. US 1991-808982, filed on 17 Dec 1991 which is a continuation of
Ser. No. US 1989-406069, filed on 12 Sep 1989
DT Utility
FS Granted
LN.CNT 1544
INCL INCLM: 395/207.000
INCLS: 395/210.000; 395/208.000; 364/468.010; 364/468.020; 364/468.030
NCL NCLM: 705/007.000
NCLS: 700/095.000; 700/096.000; 700/097.000; 705/008.000; 705/010.000
IC [6]
ICM: G06F017-60
EXF 395/208; 395/210; 395/207; 364/468.01; 364/468.02; 364/468.03

L4 ANSWER 7 OF 8 USPATFULL
AN 97:37033 USPATFULL
TI Electronic proposal preparation system for selling computer equipment and copy machines
IN Johnson, Jerome D., North Mankato, MN, United States
PA Clear With Computers, Inc., Mankato, MN, United States (U.S. corporation)
PI US 5625776 19970429 <--
AI US 1994-268166 19940629 (8)
RLI Continuation-in-part of Ser. No. US 1992-878602, filed on 5 May 1992, now patented, Pat. No. US 5493490
DT Utility
FS Granted
LN.CNT 2976
INCL INCLM: 395/227.000
INCLS: 395/224.000; 395/229.000; 395/615.000
NCL NCLM: 705/027.000
NCLS: 705/024.000; 705/029.000; 707/104.100
IC [6]
ICM: G06F017-30
ICS: G06F017-60
EXF 364/400; 364/401; 364/402; 364/403; 364/408; 364/419.19; 395/600

L4 ANSWER 8 OF 8 USPATFULL
AN 97:25850 USPATFULL
TI Electronic proposal preparation system
IN Johnson, Jerome D., North Mankato, MN, United States
PA Clear With Computers, Inc., Mankato, MN, United States (U.S. corporation)
PI US 5615342 19970325 <--

AI US 1996-596575 19960205 (8)
RLI Continuation of Ser. No. US 1992-878602, filed on 5 May 1992, now patented, Pat. No. US 5493490
DT Utility
FS Granted
LN.CNT 2586
INCL INCLM: 395/227.000
INCLS: 395/224.000; 395/229.000
NCL NCLM: 705/027.000
NCLS: 705/024.000; 705/029.000
IC [6]
ICM: G06F153-00
ICS: G06F017-30; G06F017-60
EXF 364/400R; 364/401; 364/402; 364/403; 364/408; 364/419.19; 395/600

L5 ANSWER 1 OF 9 USPATFULL
AN 2001:23199 USPATFULL
TI System and method for automatic provision customer selection, and deactivation of temporary advance intelligent network services
IN Malik, Dale W., Atlanta, GA, United States
PA Bellsouth Intellectual Property Corporation, Wilmington, DE, United States (U.S. corporation)
PI US 6188757 B1 20010213
AI US 1998-107794 19980630 (9)
RLI Continuation-in-part of Ser. No. US 1997-908068, filed on 11 Aug 1997
DT Utility
FS Granted
LN.CNT 1908
INCL INCLM: 379/207.000
INCLS: 379/230.000
NCL NCLM: 379/207.020
NCLS: 379/230.000
IC [7]
ICM: H04M003-42
ICS: H04M007-00
EXF 379/201; 379/207; 379/219; 379/220; 379/229; 379/230

L5 ANSWER 2 OF 9 USPATFULL
AN 2001:15640 USPATFULL
TI System and method for automated provision and customer selection of temporary advanced intelligent network services
IN Malik, Dale W., Atlanta, GA, United States
PA BellSouth Intellectual Property Corporation, Wilmington, DE, United States (U.S. corporation)
PI US 6181787 B1 20010130
AI US 1997-908068 19970811 (8)
DT Utility
FS Granted
LN.CNT 1591
INCL INCLM: 379/207.000
INCLS: 379/230.000
NCL NCLM: 379/207.110
NCLS: 379/230.000
IC [7]
ICM: H04M003-42
ICS: H04M007-00
EXF 379/201; 379/207; 379/219; 379/220; 379/229; 379/230

L5 ANSWER 3 OF 9 USPATFULL
AN 2001:5722 USPATFULL
TI System and method for automated provision and customer selection of temporary caller identification services
IN Malik, Dale W., Atlanta, GA, United States
PA Bellsouth Intellectual Property Corporation, Wilmington, DE, United States (U.S. corporation)
PI US 6173049 B1 20010109
AI US 1998-203067 19981201 (9)
RLI Continuation-in-part of Ser. No. US 1997-908068, filed on 11 Aug 1997
DT Patent
FS Granted
LN.CNT 1854
INCL INCLM: 379/207.000
INCLS: 379/127.000; 379/142.000; 379/230.000

NCL NCLM: 379/207.110
NCLS: 379/207.140; 379/221.090; 379/221.120; 379/230.000
IC [7]
ICM: H04M003-42
ICS: H04M001-57; H04M007-00; H04M015-06
EXF 379/127; 379/142; 379/201; 379/207; 379/219; 379/220; 379/229; 379/230

L5 ANSWER 4 OF 9 USPATFULL
AN 2001:5721 USPATFULL
TI System and method for notifying a customer of a call from a particular number
IN Malik, Dale W., Dunwoody, GA, United States
PA Bellsouth Intellectual Property Corporation, Wilmington, DE, United States (U.S. corporation)
PI US 6173048 B1 20010109
AI US 1998-116167 19980716 (9)
RLI Continuation-in-part of Ser. No. US 1997-908068, filed on 11 Aug 1997
DT Patent
FS Granted
LN.CNT 1500
INCL INCLM: 379/207.000
INCLS: 379/230.000; 455/031.200
NCL NCLM: 379/207.110
NCLS: 340/007.470; 379/221.090; 379/221.120; 379/230.000
IC [7]
ICM: H04M003-42
ICS: H04M007-00; H04Q007-14
EXF 379/201; 379/207; 379/219; 379/220; 379/229; 379/230; 340/539; 455/31.1;
455/31.2; 455/31.3; 455/415

L5 ANSWER 5 OF 9 USPATFULL
AN 2001:5720 USPATFULL
TI System and method for temporary voicemail service
IN Malik, Dale W., 1035 Redfield La., Dunwoody, GA, United States 30338
PI US 6173047 B1 20010109
AI US 1998-90437 19980604 (9)
RLI Continuation-in-part of Ser. No. US 1997-908068, filed on 11 Aug 1997
DT Patent
FS Granted
LN.CNT 1516
INCL INCLM: 379/207.000
INCLS: 379/088.220; 379/230.000
NCL NCLM: 379/207.110
NCLS: 379/088.220; 379/221.090; 379/221.120; 379/230.000
IC [7]
ICM: H04M003-42
ICS: H04M001-64; H04M007-00
EXF 379/201; 379/207; 379/219; 379/220; 379/229; 379/230; 379/88.22; 379/88.23; 379/88.25

L5 ANSWER 6 OF 9 USPATFULL
AN 2000:143439 USPATFULL
TI Automatic electronic telecommunications order translation and processing
IN Gilles, Timothy Mark, Schaumburg, IL, United States
PA Ameritech Corporation, Hoffman Estates, IL, United States (U.S. corporation)
PI US 6137873 20001024
AI US 1998-56023 19980406 (9)
DT Utility
FS Granted
LN.CNT 940
INCL INCLM: 379/201.000
INCLS: 379/088.210; 379/093.010; 379/093.030; 379/243.000; 379/245.000

NCL NCLM: 379/202.010
NCLS: 379/088.210; 379/093.010; 379/093.030; 379/243.000; 379/245.000
IC [7]
ICM: H04M003-42
EXF 379/27; 379/28; 379/201; 379/207; 379/229; 379/230; 379/93.01; 379/93.03; 379/88.21; 379/243; 379/245; 379/265; 379/269; 379/196

L5 ANSWER 7 OF 9 USPATFULL
AN 2000:25576 USPATFULL
TI Service order mechanism for telephone subscriber
IN An, Yafan, Plano, TX, United States
Bierman, Eric, Ottawa, Canada
Kelly, Michael A., Kinburn, Canada
PA Nortel Networks Corporation, Montreal, Canada (non-U.S. corporation)
PI US 6031904 20000229
AI US 1997-878966 19970619 (8)
PRAI US 1996-28760P 19961023 (60)
DT Utility
FS Granted
LN.CNT 645
INCL INCLM: 379/201.000
INCLS: 379/093.120; 379/093.230; 370/352.000; 370/466.000
NCL NCLM: 379/201.020
NCLS: 370/352.000; 370/466.000; 379/093.120; 379/093.230
IC [7]
ICM: H04M003-42
EXF 379/201; 379/114; 379/115; 379/93.12; 379/93.23; 379/265; 379/142; 370/352; 370/401; 370/466; 370/467; 370/465

L5 ANSWER 8 OF 9 USPATFULL
AN 1999:76700 USPATFULL
TI Method and system for processing a service request relating to installation, maintenance or repair of telecommunications services provided to a customer premises
IN Storch, Joan A., St. Louis County, MO, United States
Storch, Danny L., St. Louis County, MO, United States
PA Southwestern Bell Telephone Co., St. Louis, MO, United States (U.S. corporation)
PI US 5920846 19990706
AI US 1996-608838 19960227 (8)
DT Utility
FS Granted
LN.CNT 6043
INCL INCLM: 705/007.000
INCLS: 705/008.000; 705/009.000; 705/011.000; 379/010.000; 379/015.000; 379/001.000; 379/027.000; 379/029.000; 364/468.050
NCL NCLM: 705/007.000
NCLS: 379/015.030; 379/027.010; 700/099.000; 705/008.000; 705/009.000; 705/011.000
IC [6]
ICM: G06F017-60
ICS: H04M003-00
EXF 705/7; 705/8; 705/9; 705/11; 364/468.05-468.08; 379/1; 379/2; 379/4-6; 379/9; 379/10; 379/14; 379/15; 379/18; 379/26; 379/27; 379/29; 379/32; 379/33; 379/34; 379/258; 379/280; 379/399; 370/241; 370/242; 370/246; 370/248; 370/249; 370/251; 371/20.1; 371/20.4; 371/20.5

L5 ANSWER 9 OF 9 USPATFULL
AN 1999:31801 USPATFULL
TI Analysis and validation system for provisioning network related facilities
IN Farris, Robert D., Sterling, VA, United States
Harper, Myron E., Burtonsville, MD, United States
PA Bell Atlantic Network Services, Inc., Arlington, VA, United States
(U.S.

corporation)
PI US 5881131 19990309
AI US 1997-884616 19970627 (8)
RLI Continuation-in-part of Ser. No. US 1995-467646, filed on 6 Jun 1995, now patented, Pat. No. US 5644619 And a continuation-in-part of Ser. No.
US 1995-376201, filed on 20 Jan 1995, now patented, Pat. No. US 5491742 And a continuation-in-part of Ser. No. US 1993-152360, filed on 16 Nov 1993, now patented, Pat. No. US 5416833
DT Utility
FS Granted
LN.CNT 3686
INCL INCLM: 379/027.000
INCLS: 379/201.000; 379/207.000; 379/265.000; 370/259.000
NCL NCLM: 379/015.030
NCLS: 370/259.000; 379/027.010
IC [6]
ICM: H04M001-24
ICS: H04M003-08; H04M003-22
EXF 379/27; 379/34; 379/111-112; 379/115; 379/121; 379/134; 379/140; 379/196-197; 379/207; 379/219; 379/229; 379/242; 379/243; 379/265; 379/308; 379/201; 379/93; 379/211-212; 379/230; 370/351; 370/352; 370/389-390; 370/392; 370/259

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240-632-5787.

L12 ANSWER 1 OF 2 USPATFULL
AN 2002:117277 USPATFULL
TI Telephoning method comprising novel subscriber service
IN Trell, Anders Edvard, Stockholm, SWEDEN
PA Anders Trell Trust, Buffalo, NY, United States (U.S. corporation)
PI US 6393117 B1 20020521
WO 9745988 19971204
AI US 1998-155674 19981002 (9)
WO 1997-SE858 19970524
19981002 PCT 371 date
PRAI SE 1996-2187 19960531
DT Utility
FS GRANTED
LN.CNT 485
INCL INCLM: 379/207.100
INCLS: 379/230.000; 379/201.000; 379/220.000; 379/067.000; 379/373.000
NCL NCLM: 379/207.100
NCLS: 379/071.000; 379/207.030; 379/220.010; 379/230.000; 379/374.020
IC [7]
ICM: H04M003-42
ICS: H04M007-00; H04M001-64; H04M003-00
EXF 379/201; 379/204; 379/210; 379/211; 379/179; 379/207; 379/373; 379/67

L12 ANSWER 2 OF 2 USPATFULL
AN 2002:103512 USPATFULL
TI Real-time usage-based spontaneous subscription service
IN Bauer, Thomas Michael, Belle Mead, NJ, United States
Gilboy, Christopher P, Freehold, NJ, United States
PA AT&T Corp., New York, NY, United States (U.S. corporation)
PI US 6385311 B1 20020507
AI US 1999-338146 19990623 (9)
DT Utility
FS GRANTED
LN.CNT 337
INCL INCLM: 379/201.020
INCLS: 379/201.050; 379/201.120; 379/207.020
NCL NCLM: 379/201.020
NCLS: 379/201.050; 379/201.120; 379/207.020
IC [7]
ICM: H04M003-42
EXF 379/201.01; 379/201.02; 379/201.05; 379/201.12; 379/202.01; 379/203.01; 379/204.01; 379/205.01; 379/206.01; 379/207.02; 379/207.11

L14 ANSWER 1 OF 1 USPATFULL
AN 2000:68527 USPATFULL
TI Method for controlling subscriber access to a fee-based service
IN Byrd, Sally, Somerville, NJ, United States
Harwood, Jonathan P., Morganville, NJ, United States
Kerr, Suzanne P., Madison, NJ, United States
PA AT&T Corp, Middletown, NJ, United States (U.S. corporation)
PI US 6069941 20000530 <--
AI US 1995-508143 19950727 (8)
DT Utility
FS Granted
LN.CNT 603
INCL INCLM: 379/121.000
INCLS: 379/111.000; 379/133.000; 379/134.000
NCL NCLM: 379/121.060
NCLS: 379/111.000; 379/114.170; 379/114.190; 379/133.000; 379/134.000
IC [7]
ICM: H04M015-00
EXF 379/111; 379/112; 379/113; 379/114; 379/115; 379/67; 379/88; 379/89; 379/121; 379/133; 379/134; 379/144; 379/142; 379/145; 379/91.01; 379/93.02; 379/93.13

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L15 ANSWER 2 OF 3 USPATFULL
AN 96:71266 USPATFULL
TI Access to unsubscribed features
IN Andruska, Donald L., Glen Ellyn, IL, United States
Majeti, Venkata C., Naperville, IL, United States
PA AT&T Corp., Murray Hill, NJ, United States (U.S. corporation)
PI US 5544236 19960806 <--
AI US 1994-258197 19940610 (8)
DT Utility
FS Granted
LN.CNT 631
INCL INCLM: 379/201.000
INCLS: 379/207.000; 379/096.000; 379/112.000; 379/094.000
NCL NCLM: 379/201.020
NCLS: 379/093.140; 379/093.170; 379/207.020
IC [6]
ICM: H04M003-42
ICS: H04M011-00
EXF 379/201; 379/207; 379/112; 379/144; 379/94; 379/93; 379/96; 379/90; 379/157; 379/97; 379/98

L16 ANSWER 1 OF 1 USPATFULL
AN 1998:46271 USPATFULL
TI On-demand communications services
IN Mirville, Jean-Robert, Manalapan, NJ, United States
Silverman, David Phillip, Somerville, NJ, United States
PA AT&T Corp., Middletown, NJ, United States (U.S. corporation)
PI US 5745553 19980428 <--
AI US 1996-632864 19960416 (8)
DT Utility
FS Granted
LN.CNT 566
INCL INCLM: 379/067.000
INCLS: 379/201.000; 379/204.000; 379/211.000
NCL NCLM: 379/201.050
NCLS: 379/067.100; 379/114.010; 379/204.010; 379/207.110
IC [6]
ICM: H04M001-64
ICS: H04M003-42
EXF 379/201; 379/112; 379/114; 379/67; 379/88; 379/204; 379/142; 379/127; 379/211; 379/215; 370/271; 370/259

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L16 ANSWER 1 OF 1 USPATFULL
AB A communications system is designed to transmit to end-user devices involved in a call information related to communications services that are invokable in real time from the end-user devices. The transmitted information includes activation codes for invoking for a usage fee, features that may or may not be subscribed to by a caller.

L3 ANSWER 1 OF 9 USPATFULL
AN 2002:225534 USPATFULL
TI System and method for checking service availability
IN Cole, Allen, Redmond, WA, United States
Engquist, Susan, Seattle, WA, United States
Wei, Xinguo, Issaquah, WA, United States
PA AT&T Wireless Services, Inc., Redmond, WA, United States (U.S. corporation)
PI US 6445912 B1 20020903
AI US 2000-572144 20000517 (9)
PRAI US 1999-140620P 19990623 (60)
DT Utility
FS GRANTED
LN.CNT 650
INCL INCLM: 455/406.000
INCLS: 455/422.000; 455/424.000; 455/456.000
NCL NCLM: 455/406.000
NCLS: 455/422.000; 455/424.000; 455/456.000
IC [7]
ICM: H04M011-00
EXF 455/406-408; 455/419; 455/423; 455/422; 455/424; 455/446; 455/456; 455/457; 705/1; 705/26

L18 ANSWER 3 OF 9 USPATFULL
AN 2001:216065 USPATFULL
TI Methods, systems and articles for ordering a telecommunication service
IN Alcott, Scott Patrick, Oak Park, IL, United States
PA Ameritech Corporation, Hoffman Estates, IL, United States (U.S. corporation)
PI US 6324273 B1 20011127
AI US 1998-44618 19980319 (9)
DT Utility
FS GRANTED
LN.CNT 406
INCL INCLM: 379/201.000
INCLS: 379/088.230; 379/211.000; 379/216.000
NCL NCLM: 379/201.030
NCLS: 379/088.230; 379/216.010
IC [7]
ICM: H04M003-42
EXF 379/88.13; 379/88.19; 379/88.22; 379/88.23; 379/88.24; 379/88.25; 379/201; 379/202; 379/204; 379/205; 379/207; 379/211; 379/212; 379/215; 379/230; 379/114; 379/88.18; 379/93.12; 379/142; 379/214; 379/216; 379/265; 379/266; 379/355; 379/243